

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/DE2004/001447

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F04B43/04 F04B19/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 096 388 A (THE CHARLES STARK DRAPER LABORATORY) 17 March 1992 (1992-03-17)	12,13
A	column 2, line 29 - column 3, line 32 column 3, line 67 - column 4, line 36 claim 14 figures 1-3,5,6	1-3
A	EP 1 226 945 A (XEROX CORPORATION) 31 July 2002 (2002-07-31) paragraph '0004! paragraph '0009! - paragraph '0012! figures 1,2	1,12
A	DE 195 11 198 A (ROBERT BOSCH GMBH) 2 October 1996 (1996-10-02) column 1, line 34 - line 66 column 2, line 22 - column 5, line 14 figures 1-3	1,12
	----- -/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

2 November 2004

Date of mailing of the international search report

10/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Gnüchtel, F

EU 322951045 US

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/DE2004/001447

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 216 273 A (ROBERT BOSCH GMBH) 1 June 1993 (1993-06-01) column 3, line 6 - column 4, line 49 figures 1,2 -----	1
A	US 6 390 791 B1 (WESTONBRIDGE INTERNATIONAL LIMITED) 21 May 2002 (2002-05-21) cited in the application column 2, line 46 - column 3, line 51 figure 1 -----	1

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DE2004/001447

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5096388	A	17-03-1992	NONE	
EP 1226945	A	31-07-2002	US 2002097303 A1 EP 1226945 A1 JP 2002240285 A	25-07-2002 31-07-2002 28-08-2002
DE 19511198	A	02-10-1996	DE 19511198 A1	02-10-1996
US 5216273	A	01-06-1993	DE 4035852 A1 DE 59107207 D1 EP 0485739 A1 JP 4282085 A	14-05-1992 15-02-1996 20-05-1992 07-10-1992
US 6390791	B1	21-05-2002	AU 9739898 A CA 2301878 A1 DE 69813569 D1 DE 69813569 T2 EP 1003973 A1 JP 2001515183 T CN 1271407 T WO 9909321 A1	08-03-1999 25-02-1999 22-05-2003 08-04-2004 31-05-2000 18-09-2001 25-10-2000 25-02-1999